AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the Application:

1.   Cancelled.

2.   (Currently Amended) The apparatus of claim ~~1~~ 5 wherein said data origination message comprises said information needed to construct data network header information.

3.   (Original) The apparatus of claim 2 wherein said information needed to construct data network header information comprises a data network header field.

4.   (Original) The apparatus of claim 3 wherein said data network header field comprises a destination data network address.

5.   (Currently Amended) An apparatus for reducing transmission overhead in a communication system, comprising:

a processor for generating a data origination message, said data origination message initiating a data communication with a receiving station, said processor further for transmitting information needed to construct data network header information at said receiving station, and for subsequently formatting information to be transmitted in accordance with a pre-determined format, said pre-determined format lacking data network header information; and

a transmitter for transmitting said data origination message and said formatted information to said receiving station;

~~The apparatus of claim 1~~ wherein said information needed to construct data network header information is transmitted in a data frame subsequent to said data origination message.

6.   (Currently Amended) The apparatus of claim ~~1~~ 5 wherein said formatted information is not transmitted until an acknowledgement is received from said receiving station.

7.   (Currently Amended) An apparatus for reducing transmission overhead in a communication system, comprising:

a processor for generating a data origination message, said data origination message initiating a data communication with a receiving station, said processor further for transmitting information needed to construct data network header information at said receiving station, and for subsequently formatting information to be transmitted in accordance with a pre-determined format, said pre-determined format lacking data network header information;

a receiver for receiving an acknowledgement from said receiving station;

a transmitter for transmitting said data origination message and for transmitting said formatted information, after receiving said acknowledgement, to said receiving station; and

~~The apparatus of claim 1 further comprising:~~

an application for generating datagrams; wherein

said processor is further for removing said data network header information from said datagrams prior to formatting.

8.   (Currently Amended) The apparatus of claim ~~1~~ 5 further comprising:

an application for generating datagrams; wherein

said processor is further for transmitting at least one full datagram to said receiving station, and further for removing said data network header information from subsequent ones of said datagrams prior to formatting.

9.   (Currently Amended) A system for reducing transmission overhead in a communication system, comprising:

a communication device, comprising:

a processor for generating a data origination message, said data origination message initiating a data communication with a receiving station, said processor further for transmitting information needed to construct data network header information at said receiving station, and for subsequently formatting information to be transmitted in accordance with a pre-determined format, said pre-determined format lacking data network header information;

a transceiver for transmitting said data origination message and said formatted information to a receiving station; and

said receiving station, comprising:

said receiving station for receiving said information needed to construct datagrams at said receiving station and for providing said information needed to construct datagrams at said receiving station to a second processor;

said second processor for receiving said information needed to construct datagrams at said receiving station, for storing said information needed to construct datagrams at said

receiving station in a storage device, and for configuring a data packet generator to generate datagrams to a destination data network address across a data network; and

~~said storage device for storing said information needed to construct datagrams at said receiving station ; and~~

said data packet generator for generating datagrams in accordance with at least one data network protocol, each of said data network protocols having a respective header associated with it, each of said headers comprising information obtained from at least said storage device.

10. (Currently Amended) The system ~~apparatus~~ of claim 9 wherein said data origination message comprises said information needed to construct datagrams at said receiving station.

11. (Currently Amended) The system ~~apparatus~~ of claim 10 wherein said information needed to construct datagrams at said receiving station comprises a data network header field.

12. (Currently Amended) The system ~~apparatus~~ of claim 11 wherein said data network header field comprises a destination data network address.

13. (Currently Amended) The system ~~apparatus~~ of claim 9 wherein said information needed to construct datagrams at said receiving station is transmitted in a data frame subsequent to said data origination message.

14. (Currently Amended) The system of claim 9 further comprising:

a data packet receiver for receiving datagrams from <u>a device across said data network</u> ~~said destination device~~;

said second processor further for determining a <u>second</u> ~~destination~~ communication device for which said datagrams are intended, and for removing data network header information from said datagrams, and further for formatting said data network header removed datagrams in accordance with a pre-determined data format, said pre-determined data format lacking said data network header information; and

a transmitter for transmitting said formatted information to said destination communication device.

15. (Currently Amended) The system of claim ~~5~~ <u>14</u> wherein the second ~~destination~~ communication device is determined by comparing a second destination data network

address provided by said <u>datagrams</u> ~~data packets~~ from said ~~destination~~ device to a list of destination data network addresses in said storage device and retrieving a corresponding communication device identification code.

16.   (Currently Amended) The system of claim ~~5~~ <u>9</u> wherein said second processor is further for generating a second data origination message comprising information indicating that a data communication is available.

17.   (Currently Amended) The system of claim ~~7~~ <u>16</u> wherein said second data origination message comprises information for allowing said ~~destination~~ communication device to decode said formatted information.

18.   Cancelled.

19.   (Currently Amended) The method of claim ~~18~~ <u>22</u> wherein said data origination message comprises said information needed to construct datagrams at said receiving station.

20.   (Currently Amended) The <u>method</u> ~~apparatus~~ of claim 19 wherein said information needed to construct datagrams at said receiving station comprises a data network header field.

21.   (Currently Amended) The <u>method</u> ~~apparatus~~ of claim 20 wherein said data network header field comprises a destination data network address.

22.   (Currently Amended) <u>A method for reducing transmission overhead in a communication system, comprising the steps of:</u>
        <u>generating a data origination message, said data origination message initiating a data communication with a receiving station;</u>
        <u>transmitting information needed to construct data network header information at said receiving station;</u>
        <u>transmitting said data origination message to said receiving station;</u>
        <u>formatting information to be transmitted to said destination device in accordance with a pre-determined data format, said pre-determined data format lacking data network header information; and</u>
        <u>transmitting said formatted information to said receiving station;</u>

~~The apparatus of claim 18~~ wherein said information needed to construct datagrams at said receiving station is transmitted in a data frame subsequent to said data origination message.

23.   Cancelled.

24.   (Currently Amended) <u>A method for reducing transmission overhead in a communication system, comprising the steps of:</u>

<u>generating a data origination message, said data origination message initiating a data communication with a receiving station;</u>

<u>transmitting information needed to construct data network header information at said receiving station;</u>

<u>transmitting said data origination message to said receiving station;</u>

<u>formatting information to be transmitted to said destination device in accordance with a pre-determined data format, said pre-determined data format lacking data network header information;</u>

<u>receiving an acknowledgement from said receiving station; and</u>

<u>transmitting said formatted information to said receiving station after receiving said acknowledgement;</u>

~~The method of claim 23~~ wherein said acknowledgement indicates that a data packet generator at said receiving station is configured for sending information to said destination device.

25.   (Currently Amended) The method of claim ~~18~~ <u>22</u> further comprising the steps of:

receiving said information needed to construct datagrams at said receiving station by said receiving station;

storing said information needed to construct datagrams at said receiving station in a storage device;

configuring a data packet generator to generate datagrams in accordance with said information needed to construct datagrams at said receiving station ~~across a data network~~, each of said datagrams comprising one or more data network headers, said data network headers constructed using at least said destination data network address stored in said storage device;

receiving said formatted information from said communication device to be transmitted across said data network;

constructing datagrams in accordance with said data packet generator configuration; and

sending said datagrams across said data network to a destination data network address.

26.   (Currently Amended) The method ~~apparatus~~ of claim 25 wherein said data origination message comprises said information needed to construct datagrams at said receiving station.

27.   (Currently Amended) The method ~~apparatus~~ of claim 26 wherein said information needed to construct datagrams at said receiving station comprises a data network header field.

28.   (Currently Amended) The method ~~apparatus~~ of claim 27 wherein said data network header field comprises said destination data network address.

29.   (Currently Amended) A method for reducing transmission overhead in a communication system, comprising the steps of:

generating a data origination message, said data origination message initiating a data communication with a receiving station;

transmitting information needed to construct data network header information at said receiving station;

transmitting said data origination message to said receiving station;

formatting information to be transmitted to said destination device in accordance with a pre-determined data format, said pre-determined data format lacking data network header information;

transmitting said formatted information to said receiving station;

~~The apparatus of claim 25~~ wherein said information needed to construct datagrams at said receiving station is transmitted in a data frame subsequent to said data origination message.;

~~The method of claim 18~~ 22 further comprising the steps of:

receiving said information needed to construct datagrams at said receiving station by said receiving station;

storing said information needed to construct datagrams at said receiving station in a storage device;

configuring a data packet generator to generate datagrams in accordance with said information needed to construct datagrams at said receiving station ~~across a data network~~, each of said datagrams comprising one or more data network headers, said data network headers constructed using at least said destination data network address stored in said storage device;

receiving said formatted information from said communication device to be transmitted across said data network;

constructing datagrams in accordance with said data packet generator configuration; and

sending said datagrams across said data network to a destination data network address.

30. (Original) The method of claim 25 further comprising transmitting an acknowledgement to said communication device after said data packet generator has been configured.

31. Cancelled.

32. (Currently Amended) The method apparatus of claim 31 35 wherein said data origination message comprises said information needed to construct datagrams at said receiving station.

33. (Currently Amended) The method apparatus of claim 32 wherein said information needed to construct datagrams at said receiving station comprises a data network header field.

34. (Currently Amended) The method apparatus of claim 33 wherein said data network header field comprises said destination data network address.

35. (Currently Amended) A method for reducing transmission overhead in a communication system, comprising the steps of:

receiving a data origination message from a communication device, said data origination message initiating a data communication with a receiving station;

receiving information needed to construct datagrams at said receiving station;

storing said information needed to construct datagrams at said receiving station in a storage device;

configuring a data packet generator for transmitting datagrams across a data network to a destination device, said datagrams formatting in accordance with at least one data network protocol, said datagrams each comprising at least one data network header,

said at least one data network header formed from information stored in said storage device;

receiving formatted information from said communication device to be transmitted to said destination device;

constructing datagrams in accordance with said data packet generator configuration;

transmitting said datagrams to said destination device across said data network;

~~The apparatus of claim 31~~ wherein said information needed to construct datagrams at said receiving station is transmitted in a data frame subsequent to said data origination message.